



## Department of Energy

Fermi Group  
Post Office Box 2000  
Batavia, Illinois 60510

MAY 07 1999

John R. O'Fallon, Director  
High Energy Physics Division  
SC-22 GTN

SUBJECT: REQUEST FOR APPROVAL OF NEUTRINOS AT THE MAIN INJECTOR  
(NuMI) CRITICAL DECISION (CD) 3B, CONTINUE CONSTRUCTION

In accordance with the NuMI Project Execution Plan (PEP), I am requesting your approval of CD-3B, Continue Construction, for the NuMI project. In the PEP, DOE CD-3 (Start Construction) is split into two parts: CD-3A (Start Limited Construction) and CD-3B (Continue Construction). On February 23, 1999, you approved CD-3A for the MINOS far detector experimental hall at the Soudan Underground Laboratory. Construction approved under CD-3A is limited to cavern and tunnel construction, shaft reconstruction, and rock removal; utilities and experimental facilities are not included. A Notice to Proceed has been issued and the contractor has started mobilizing, with approved construction to start on May 10, 1999.

The PEP defines CD-3B as "Project is ready to start full construction of the on-site activities at Fermilab, with underground construction to receive final approval by the DOE project review in May 1999." Critical Decision 3B will allow the start of all construction not previously approved under CD-3A. The first conventional construction activity at the Fermilab site will be the Site Preparation, Title II design is complete and is scheduled for bidding in May 1999. The next key activity will be the construction of the Fermilab Underground Facility, for which the Title II design is approximately 60 percent complete and which is scheduled for bidding in September 1999. In addition, some detector equipment is scheduled to be built in FY 1999.

The readiness of the project to continue construction is indicated by the following events:


1. The Director of the DOE Office of Science approved CD-2, which established the NuMI project baseline, on February 17, 1999.
2. In November 1998 Fermilab initiated a value-engineering study of the conventional facility through the Corps of Engineers. This effort was completed in February 1999 resulting in 21 proposals for cost savings or functional improvements to the facilities. A significant number of these proposals are being incorporated into the Title II design.
3. I approved the NuMI Title I design on February 18, 1999. All comments resulting from the Title I Design Review are being incorporated into the Title II design of the facilities.
4. On March 8, 1999, you approved the NuMI Project Management Plan (PMP) provisionally pending peer review. Peer review of project management will be included in DOE reviews of the project in May 1999 and Fall 1999.

FILE -> NU MI 1.0  
11.8 - 2.1

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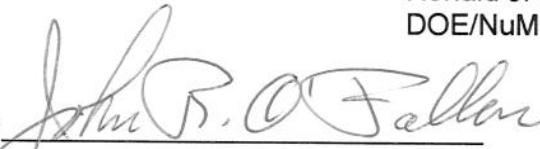
In summary, the Fermilab management structure is in place to oversee this work and to control the cost, schedule and technical baselines. The execution of this activity is in accordance with the roles and responsibilities of the Project Execution Plan.

With your approval of this request, construction of the MINOS detector and the NuMI facility at the Fermilab site can be initiated and construction at the Soudan Underground Laboratory can be continued.



Ronald J. Lutha  
DOE/NuMI Project Manager

APPROVED: \_\_\_\_\_



DISAPPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

5/21/99

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